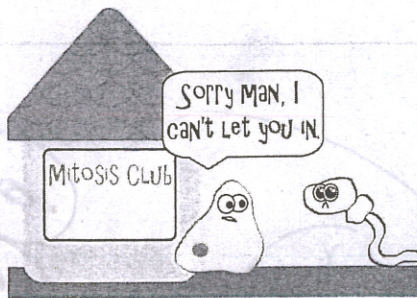


Amoeba Sisters Video Recap of Mitosis: The Amazing Cell Process That Uses Division to Multiply

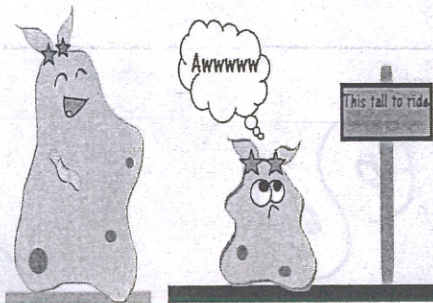
1. Mitosis is done by your body cells. This cartoon illustrates an exception. What types of cells do not undergo mitosis?

sperm cells
egg cells



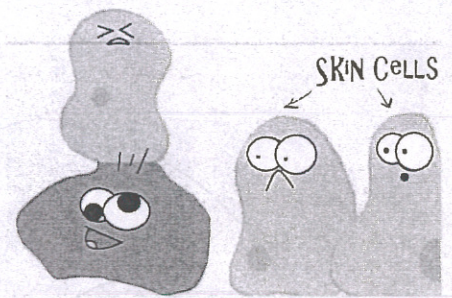
2. Describe how mitosis is important for your body.

repair
grow
replace



3. This illustration is trying to demonstrate something that mitosis is not. In mitosis, the cells that are created are

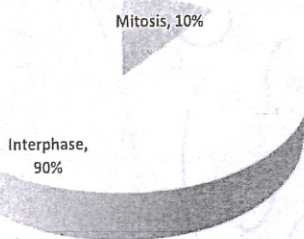
identical



4. Mitosis is just one small part of the cell cycle! Describe what would occur if cells were in mitosis more than they were in interphase.

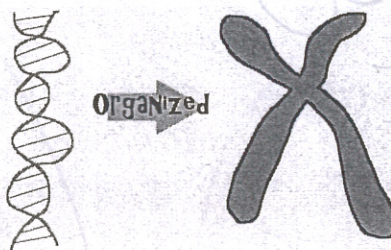
rapid, crazy growth

Cell Cycle

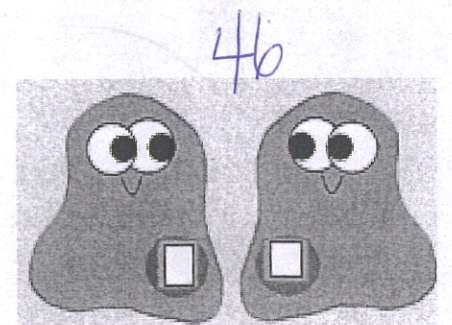


5. When cells are dividing, it is important to understand that they have to move **chromosomes** equally to both cells. Based on this illustration, describe what a **chromosome** is made of.

DNA + protein



6. Mitosis starts and ends with **diploid** cells. That means they have two sets of chromosomes (both parents each contribute a set). In humans, how many chromosomes should be in each of these **diploid** cells after mitosis?



23 pair

23 mom 23 dad



Sketch the Mitotic Stages

Directions: We encourage you to be creative with a cartoon illustration of your own for each phase. Label the **chromosomes**, **spindles**, and **nucleus** (if applicable).

Mitosis CLUES!

P
M - (M For "Middle")
A - (A For "AWay")
T - (T For "tWo")

